

App. No. 10/663,223
Office Action Dated July 27, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claim 1 is amended.

Listing of Claims:

1. (Currently Amended) A pressure welding type anisotropic conductive elastic connector, comprising plural beryllium copper wires arranged linearly and regularly in the thickness direction of a silicone rubber, the pressure welding type anisotropic conductive elastic connector being produced by the process comprising the steps of:

fixing a thin unvulcanized rubber sheet of the preform sheet to a reel drum of a reel device;

arranging the beryllium copper wires on the thin unvulcanized silicone rubber sheet in parallel to ~~and close contact with~~ each other, the beryllium copper wires being insulation-coated, wherein the thin beryllium copper wires were reeled up at a constant pitch onto the preform sheet on the face of the drum;

curing the thin unvulcanized silicone rubber sheet in this state so as to form a cured rubber sheet;

removing the preform sheet from the reel drum and opening the preform sheet;

further adhering a thin unvulcanized silicone rubber sheet on the beryllium copper wires arranged on the cured rubber sheet to provide an adhered sheet;

laminating a plurality of the adhered sheets so as to form a block form; and

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slicing the block form,

wherein an electric insulation coating having a withstand voltage of 1 V/ μ m or more is formed to a thickness of 1 μ m or more on side faces of the beryllium copper wires;

the beryllium copper wires are arranged with a pitch interval of 0.01 mm or less in close contact with each other in the direction of the arrangement; and

corrosion inhibiting plating is provided on end faces of the beryllium copper wires.

2. (Previously Presented) The anisotropic conductive elastic connector according to claim 1, wherein the ends of the beryllium copper wires are exposed from the silicone rubber and have a length that is substantially the same as the thickness of the insulation elastic resin material.

3. (Canceled)

4. (Previously Presented) The anisotropic conductive elastic connector according to claim 1, wherein the corrosion inhibiting plating is electroless plating.

5. (Previously Presented) The anisotropic conductive elastic connector according to claim 1, wherein the corrosion inhibiting plating is provided by providing gold plating on electroless nickel plating.

6. (Previously Presented) The anisotropic conductive elastic connector according to claim 1, wherein the arrangement density of the beryllium copper wires is different depending on a predetermined conducting current capacity.

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7-9. (Canceled)